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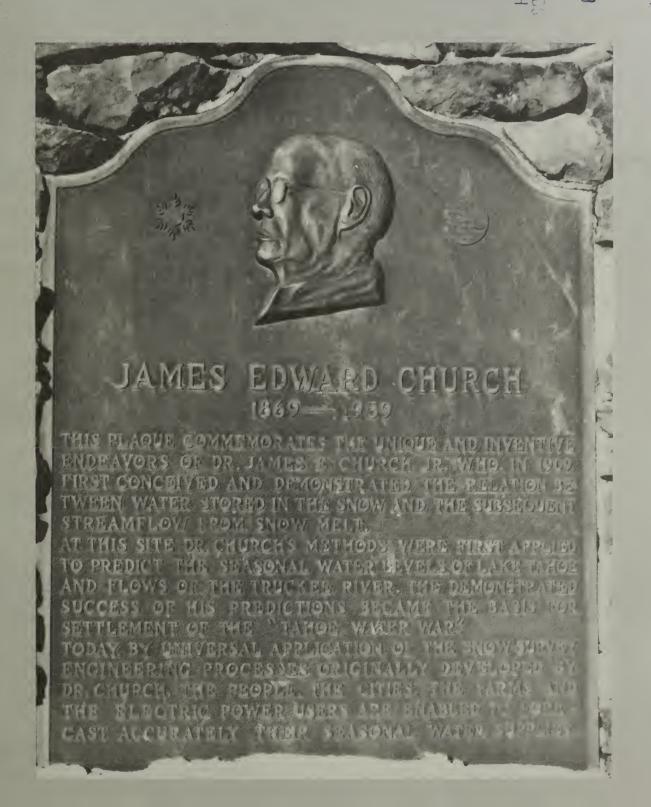
Soil Conservation Service

Reno Nevada



Nevada Water Supply Outlook

May 1, 1989



Foreword

How Forecasts Are Made

Most of the annual streamflow in the Western United States originates as snowfall that has accumulated high in the mountains during winter and early spring. As the snowpack accumulates, hydrologists estimate the runoff that will occur when it melts. Predictions are based on careful measurements of snow water equivalent at selected index points. Precipitation, temperature, soil moisture and antecedent streamflow data are combined with snowpack data to prepare runoff forecasts. Streamflow forecasts are coordinated by Soil Conservation Service and National Weather Service hydrologists. This report presents a comprehensive picture of water supply outlook conditions for areas dependent upon surface runoff. It includes selected streamflow forecasts, summarized snowpack and precipitation data, reservoir storage data, and narratives describing current conditions.

Snowpack data are obtained by using a combination of manual and automated measurement methods. Manual readings of snow depth and water equivalent are taken at locations called snow courses on a monthly or semi-monthly schedule during the winter. In addition, snow water equivalent, precipitation and temperature are monitored on a daily basis and transmitted via radio telemetry to central data collection facilities. Both monthly and daily data are used to project snowmelt runoff.

An error is associated with each forecast, and this error decreases as the season progresses and more data becomes available. To express the range of error that can be expected, "most probable" forecasts are issued along with a range representing a "reasonable minimum" and a "reasonable maximum". Actual streamflow can be expected to fall within this range in eight out of ten years. Additionally two specific scenarios are provided based on the assumption that subsequent precipitation will be "wet", above average, or "dry", below average.

For More Information

Copies of Monthly Water Supply Outlook Reports and other reports may be obtained from the states listed below. An annual snow survey data summary is published by the Soil Conservation Service for each of the western states. Historical snow survey data may be obtained at those same offices.

STATE	ADDRESS
Alaska	201 East 9th Ave., Suite 300, Anchorage, AK 99501-3687
Arizona	201 East Indianola Ave., Suite 200, Phoenix, AZ 85012
Colorado	2490 West 26th Ave., Building A, 3rd floor, Denver, CO 80211
Idaho	3244 Elder Street, Room 124, Boise, ID 83705
Montana	10 East Babcock, Room 443, Federal Building, Bozeman, MT 59715
Nevada	1201 Terminal Way, Room 219, Reno, NV 89502
New Mexico	517 Gold Ave. S.W., Room 3301, Albuquerque, NM 87102-3157
Oregon	1220 Southwest 3rd Ave., Room 1640, Portland, OR 97204
Utah	4402 Federal Building, 125 South State Street, Salt Lake City, UT 84147
Washington	W. 920 Riverside, Room 360, Spokane, WA 99201-1080
Wyoming	Federal Building, 100 "B" Street, Room 3124, Casper, WY 82601

In addition to state reports, a Water Supply Outlook for the Western United States is published by the Soil Conservation Service and National Weather Service monthly, January through May. Reports may be obtained from the Soil Conservation Service, West National Technical Center, 511 Northwest Broadway, Room 248, Portland, OR 97209-3489.

Water supply reports published by other agencies:

California — Snow Survey Branch, California Department of Water Resources, P.O. Box 388, Sacramento, CA 95802; British Columbia — The Ministry of Environment, Water Investigations Branch, Parliament Buildings, Victoria, British Columbia, V8V 1X5; Yukon Territory — Department of Indian and Northern Affairs, Northern Operations Branch, 200 Range Road, Whitehorse, Yukon Territory, Y1A3V1; Alberta, Environment Technical Services Division, 9820 106th St., Edmonton, Alberta T5K 2J6.

Nevada Water Supply Outlook

and

Federal - State - Private Cooperative Snow Surveys

Issued By

Wilson Scaling Chief Soil Conservation Service Washington, DC 20013

Released By

William D. Goddard State Conservationist Soil Conservation Service Reno, Nevada 89502

Prepared By

Chris Pacheco Water Supply Specialist Soil Conservation Service 1201 Terminal Way, Second Floor Reno, Nevada 89502

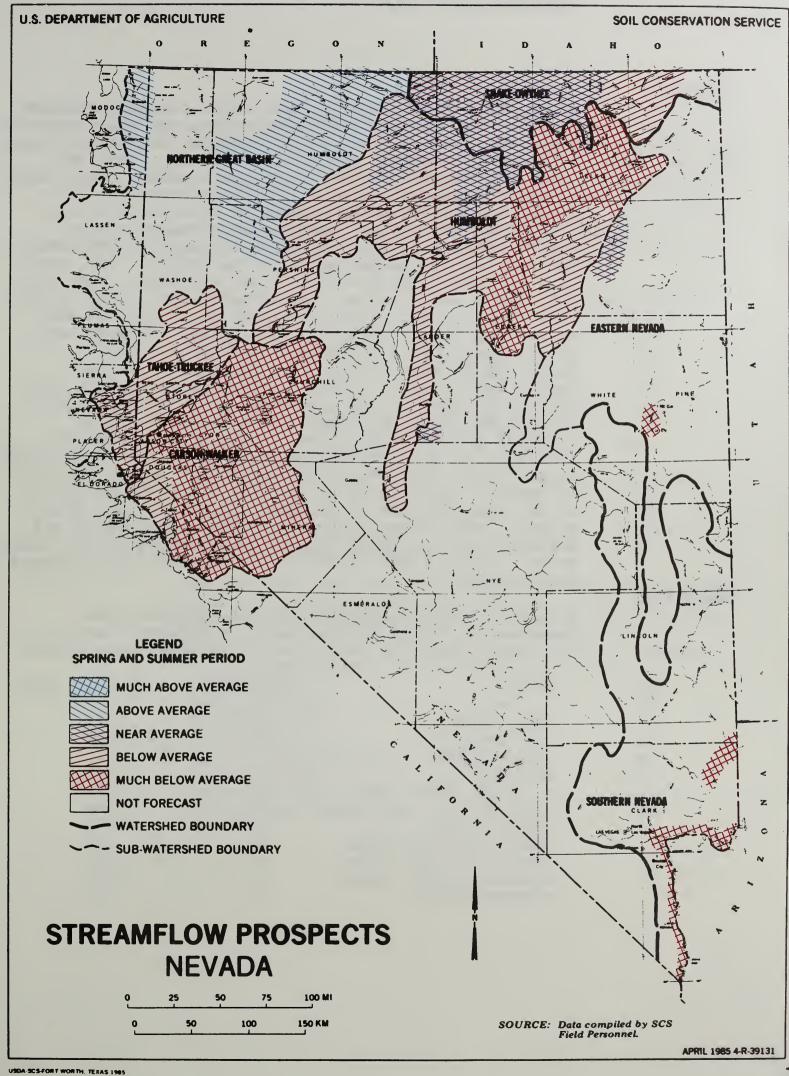
In Cooperation With

Roland D. Westergard Director Department of Conservation & Natural Resources Carson City, Nevada 89701

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TABLE OF CONTENTS

STATE STREAMFLOW PROSPECTS MAP	1
STATE GENERAL OUTLOOK	2
IMPORTANT NOTICE	5
BASIN OUTLOOK AND CONDITIONS	
LAKE TAHOE BASIN	6
TRUCKEE RIVER BASIN	8
CARSON RIVER BASIN	LO
WALKER RIVER BASIN	L2
NORTHERN GREAT BASIN	L 4
UPPER HUMBOLDT RIVER BASIN	۱6
LOWER HUMBOLDT RIVER BASIN	L8
CLOVER VALLEY & FRANKLIN RIVER BASIN	
SNAKE RIVER BASIN	22
OWYHEE RIVER BASIN	24
EASTERN NEVADA BASIN	26
LOWER COLORADO RIVER BASIN	28
SNOW DATA MEASUREMENTS	30
ADDITIONAL INFORMATION	32
LOCAL SOIL CONSERVATION SERVICES OFFICES	35



SUMMARY

SIGNIFICANT REDUCTIONS IN SNOW WATER CONTENT OCCURRED IN APRIL DUE TO HIGH TEMPERATURES AND LOW PRECIPITATION DURING THE MONTH. SNOW WATER CONTENTS ARE BELOW NORMAL TO WELL BELOW NORMAL FOR MOST OF NEVADA. ONLY THE LOWER HUMBOLDT RIVER BASIN AND THE NORTHERN GREAT BASIN ARE REPORTING NEAR NORMAL CONDITIONS. APRIL PRECIPITATION WAS BELOW NORMAL TO WELL BELOW NORMAL THROUGHOUT THE STATE. YEAR-TO-DATE PRECIPITATION (SINCE OCTOBER 1, 1988) IS NEAR NORMAL TO BELOW NORMAL FOR MOST OF THE MAJOR BASINS IN THE STATE. HUMBOLDT RIVER, CLOVER VALLEY AND FRANKLIN RIVER, AND THE OWYHEE RIVER BASINS ALL REPORTED WELL ABOVE NORMAL YEAR-TO-DATE PRECIPITATION TOTALS WHILE THE EASTERN NEVADA AND LOWER COLORADO RIVER BASINS REPORTED WELL BELOW NORMAL YEAR-TO-DATE PRECIPITATION TOTALS. RESERVOIR STORAGE INCREASED SIGNIFICANTLY IN MANY BASINS DURING APRIL, HOWEVER, STORAGE IN MOST OF THE RESERVOIRS REMAINS BELOW TO WELL BELOW NORMAL. ONLY THE OWYHEE RIVER AND LOWER COLORADO RIVER BASINS REPORTED ABOVE NORMAL TO WELL ABOVE NORMAL STORAGE. THE SEVEN MAJOR RESERVOIRS SUPPLYING WATER FOR NORTHERN NEVADA WATER USERS WERE 53% OF AVERAGE ON THE LAST DAY STREAMFLOWS IN MANY OF THE MAJOR BASINS IN OF APRIL. NEVADA ARE EXPECTED TO BE BELOW NORMAL TO WELL BELOW NORMAL. NEAR NORMAL TO ABOVE NORMAL STREAMFLOWS ARE EXPECTED IN THE CLOVER VALLEY AND FRANKLIN RIVER, SNAKE RIVER, OWYHEE RIVER, LOWER HUMBOLDT RIVER AND NORTHERN GREAT BASINS.

SNOWPACK

Low precipitation amounts and high temperatures combined to significantly reduce snowpacks throughout the state. All the major basins reported near normal to well below snow water content.

BASIN	% OF	AVERAGE	% OF LAST YEAR
LAKE TAHOE		58%	986%
TRUCKEE RIVER		73%	360%
CARSON RIVER		54%	291%
WALKER RIVER		41%	161%
N. GREAT BASIN		93%	222%
SNAKE RIVER		82%	120%
OWYHEE RIVER		76%	227%
UPPER HUMBOLDT RIVER.		22%	78%
LOWER HUMBOLDT RIVER.		95%	262%
HUMBOLDT RIVER (TOTAL)	67%	201%
EASTERN NEVADA		14%	18%

PRECIPITATION

Precipitation during April was below to well below normal for the entire state. Total precipitation since October 1, 1988 is near normal to below normal for most of the major basins in the state. The Lower Humboldt River, Clover Valley & Franklin River and the Owyhee River Basins report well above normal yearly totals while the Eastern Nevada and Lower Colorado River Basins have had well below normal precipitation since the beginning of the water year.

		APRIL	YEAR-TO-DATE
BASIN	% OF	AVERAGE	% OF AVERAGE
LAKE TAHOE		. 69%	97%
TRUCKEE RIVER		. 56%	86%
CARSON RIVER		52%	82%
WALKER RIVER		35%	82%
N. GREAT BASIN		. 90%	96%
UPPER HUMBOLDT RIVER.		. 23%	87%
LOWER HUMBOLDT RIVER.		. 56%	124%
CLOVER VALLEY &			
FRANKLIN RIVER		86%	125%
SNAKE RIVER		. 57%	95%
OWYHEE RIVER		50%	114%
EASTERN NEVADA		3%	66%
LOWER COLORADO RIVER.		11%	48%

RESERVOIRS

Reservoir storage was below normal to well below normal in most of the basins on the last day of April. The Owyhee River and Lower Colorado River Basins reported above normal to well above normal storage figures.

	* CAPACITY * OF AVERAG	5E
LAKE TAHOE	21% 34%	
TRUCKEE RIVER	51% 82%	
CARSON RIVER	58% 75%	
WALKER RIVER	29% 40%	
LOWER HUMBOLDT RIVER		
	75%155%	
LOWER COLORADO RIVER		
SEVEN MAJOR RESERVOIRS	35% 53%	

STREAMFLOW

Streamflow forecasts indicate below normal to well below normal streamflows can be expected in most of the basins in the state. Above normal streamflows are expected in the Northern Great Basin. Near normal streamflows are forecast in the Owyhee River Basin, Clover Valley & Franklin River Basin and portions of the Lower Humboldt River Basin.

BASIN	% OF AVERAGE
TRUCKEE RIVER	. 75%- 88%
CARSON RIVER	. 63%- 76%
WALKER RIVER	. 60%- 65%
N. GREAT BASIN	.111%-117%
UPPER HUMBOLDT RIVER	. 56%- 75%
LOWER HUMBOLDT RIVER	. 68%-105%
CLOVER VALLEY & FRANKLIN RIVER	. 99%
SNAKE RIVER	. 81%
OWYHEE RIVER	.101%-110%
EASTERN NEVADA	. 56%- 90%
LOWER COLORADO RIVER	. 45%- 80%

YOU HAVE BEEN HEARD ...

A recent evaluation of the Snow Survey and Water Supply Forecasting Program interviewed 200 users of the forecasts. We learned that:

- -- Users who got their information by accessing our computer were very satisfied;
- -- Users who depended on the monthly Water Supply Outlook Report needed the information much earlier in the month; and
- -- The reports contained more information than many users needed.

In summary, we are producing a report that is not doing the job for most users. And we are spending a lot of money on the report.

The state-wide WATER SUPPLY OUTLOOK REPORT will be discontinued. We are proposing three actions for the next water year to better meet your needs:

FIRST, the users' direct access of forecasts by computer will be improved. We will provide better instructions and self-training materials. Also, District Conservationists who have computers will be encouraged to access forecasts and distribute local reports to those users who do not have computer facilities.

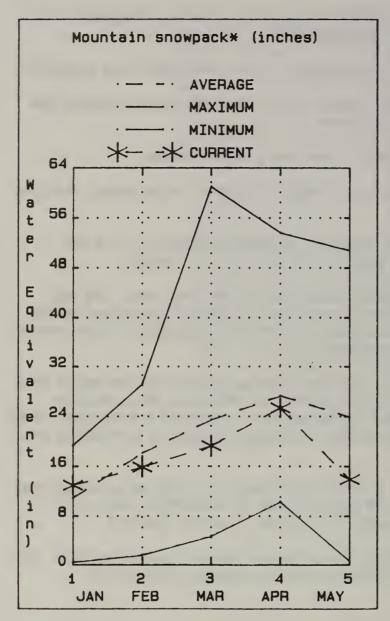
SECOND, the SCS state office will prepare individual forecast reports for the major river basins in the state. They will be the same as the reports available on the computer. Users who request it will be on a mailing list to receive one or more of the reports. They will be printed and mailed within a day or two after the basin forecast is completed and available on the computer.

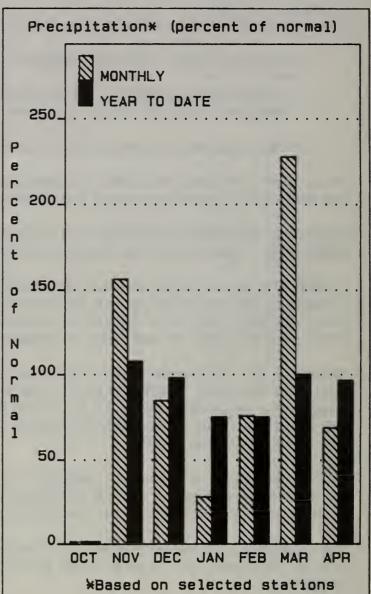
THIRD, for users who are interested in the forecasts for their historical value rather than for decision-making, an annual summary will be provided. A West-Wide Report will continue to be available, published jointly with the National Weather Service.

This summer and fall will be spent developing the details of these new procedures. You will be informed prior to next water year's reports, and new mailing lists will be prepared.

Please call us or write if you have any questions.

LAKE TAHOE BASIN





Snow water content in the Lake Tahoe Basin decreased to well below average during April. The basin currently has 58% of the May 1 average and 986% of the water content present last year. April precipitation for the Lake Tahoe Basin was 69% of average and 138% of last year. Precipitation since October 1, 1988 is 97% of the average and 199% of last year. The elevation at Lake Tahoe on the last day of April was 6224.27 or 34% of average. Storage on that day was 154,200 acre feet. The forecast for the rise in Lake Tahoe is 1.1 feet or 73% of normal from April-High (assuming the gates are closed).

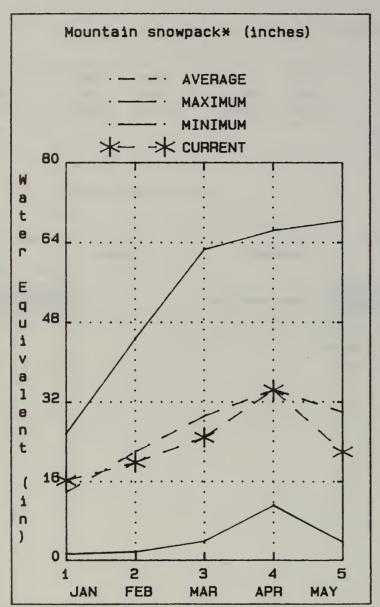
FORECAST POINT	FORECAST PERIOD	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVG.)	WET SUBS. (1000AF)	DRY SUBS. (1000AF)	REAS. MAX. (1000AF)	REAS. MIN. (1000AF)	25 YR. AVG. (1000AF)
LAKE TAHOE RISE(assume gates closed)	APR-HIG	1.1	73			1.4	0.8	1.5
RESERVOIR	STORAGE	((1000 AF)	 	WATE.	RSHED SNOWPA	CK ANALYSIS	
RESERVOIR	USEABLE CAPACITY	** USEA THIS YEAR	ABLE STORAGE LAST YEAR	•	TERSHED	NO. COU	RSES	YEAR AS % OF
LAKE TAHOE	744.6	154.2		51.4 LAI	Œ TAHOE RISE	11	986	58

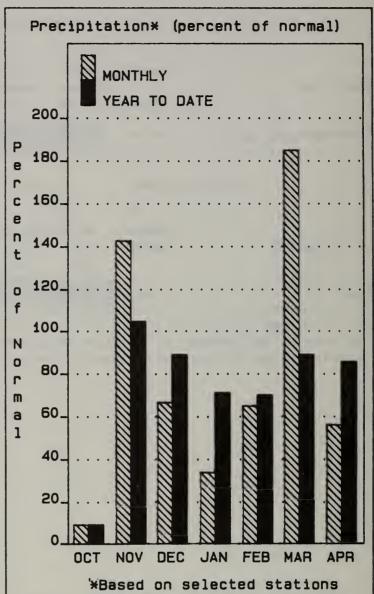
WET SUBS. and DRY SUBS. represent 130 and 70 percent subsequent precipitation events respectively.

REAS. MAX. and REAS. MIN. forecasts are for 10% and 90% exceedance levels.

^{(2) -} Corrected for upstream diversions or changes in reservoir storage.

TRUCKEE RIVER BASIN





Snow water content in the Truckee River Basin decreased to below normal during April. The basin currently has 73% of the May 1 average and 360% of the water content present last year. April precipitation for the Truckee River Basin was 56% of average and 95% of last year. Precipitation since October 1, 1988 is 86% of average and 202% of last year. Reservoir storage on the last day of April was 82% of average. Total storage for Boca, Prosser and Stampede reservoirs was 150,145 acre feet. Streamflows in the Truckee River Basin are expected to be below average. The Truckee River at Farad is expected to flow at 88% of average or 250,000 acre feet during the April-July forecast period.

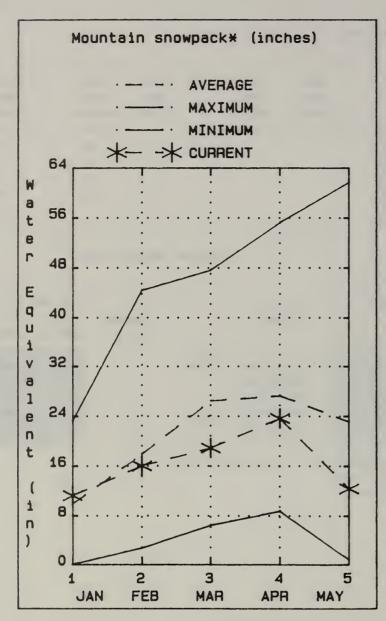
FORECAST POINT	FORECAST PERIOD		PROBABLE (% AVG.)		SUBS.	(1000AF)		MIN (1000AI	F)		25 YR. AVG. (1000AF)
TRUCKEE RIVER at Farad 2	APR-JUL	250	88				315	18			285
LITTLE TRUCKEE RIVER above Boca 2	APR-JUL	80	87				98	62	2		92
STEAMBOAT CREEK at Steamboat 2	APR-JUL	7 5.3	75				6.6	4.0	0		7.1
GALENA CREEK nr Steamboat, Nv	APR-JUL	3.6	80				4.4	2.8	8		4.5
PYRAMID LAKE RISE (LOW 2/1/87)	LOW-HIG	-1.1									1.2
RESERVOIR	R STORAGE		(1000 AF)	1		WATERS	HED SNOWPA	.CK ANAL	YSIS		
	USEABLE	** USE	ABLE STORA	 GE **			NO.			YEAR	AS & OF
RESERVOIR	USEABLE CAPACITY 	** USE; THIS YEAR	ABLE STORAI LAST YEAR	AVG.		RSHED	NO. COU AVG	RSES	THIS	YR.	AS % OF
	USEABLE	** USE; THIS YEAR	ABLE STORAI LAST YEAR	AVG.	WATE	RSHED	NO. COU AVG	rses	THIS	YR.	AVERAGE
RESERVOIR	USEABLE CAPACITY 	** USE! THIS YEAR	ABLE STORAL LAST YEAR	AVG.	WATE	RSHED	NO. COU AVG	rses	THIS	YR.	AVERAGE
RESERVOIR BOCA RESERVOIR PROSSER RESERVOIR	USEABLE CAPACITY 	** USEA THIS YEAR	ABLE STORA LAST YEAR	AVG. 29.5	LITT:	RSHED LE TRUCKEE RIVE	NO. COU AVG	RSES	THIS LAST	YR.	AVERAGE
RESERVOIR BOCA RESERVOIR	USEABLE CAPACITY 40.9 28.6	** USEA THIS YEAR 37.0	LAST YEAR 12.2 10.1	AVG. 29.5 13.2	LITT: SAGE:	RSHED LE TRUCKEE RIVE HEN CREEK	NO. COU AVG	RSES	THIS LAST 268	YR.	AVERAGE

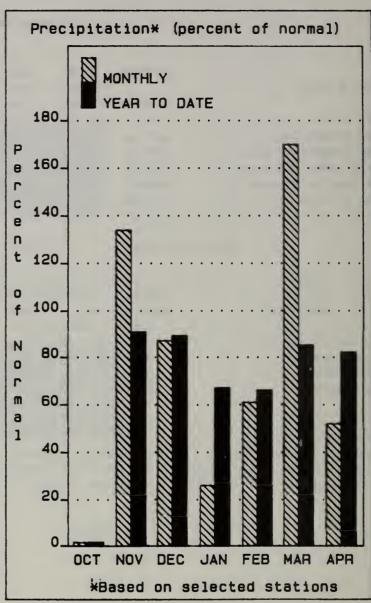
WET SUBS. and DRY SUBS. represent 130 and 70 percent subsequent precipitation events respectively.

REAS. MAX. and REAS. MIN. forecasts are for 10% and 90% exceedance levels.

^{(2) -} Corrected for upstream diversions or changes in reservoir storage.

CARSON RIVER BASIN





Snow water content in the Carson River Basin decreased during April to well below average. The basin currently has 54% of the May 1 average and 291% of the water content present last year. April precipitation for the Carson River Basin was 52% of average and 67% of last year. Precipitation since October 1, 1988 is 82% of average and 156% of last year. Reservoir storage on the last day of April was 75% of average. Total storage for Lahontan Reservoir was 172,594 acre feet. Streamflows in the Carson River Basin are expected to be below normal to well below normal. The Carson River near Carson City is expected to flow at 66% of average or 130,000 acre feet during the April-July forecast period, with a peak flow of about 1250 cfs. Peak flow for the East Fork of the Carson River near Gardnerville is expected to be about 1300 cfs. Low flow (200 cfs) should occur on or about May 28, 1989.

CARSON RIVER BASIN

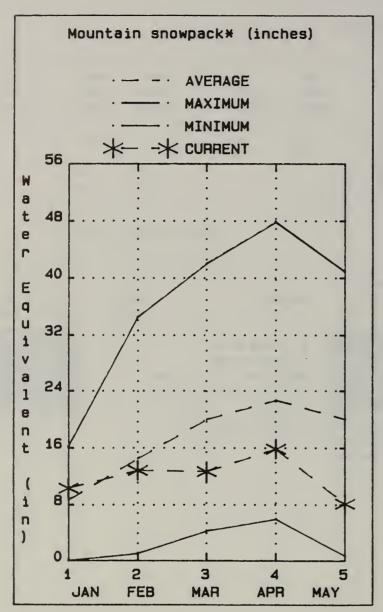
STREAMFLOW FORECASTS

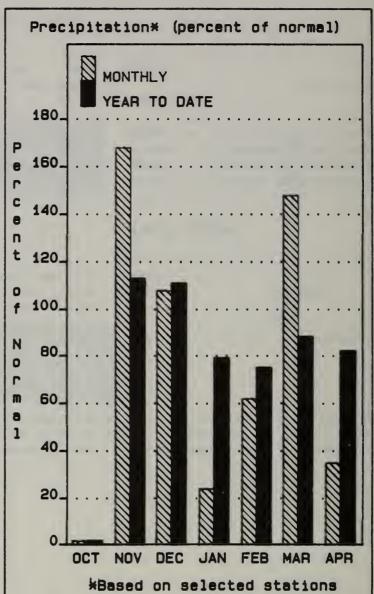
FORECAST POINT	FORECAST PERIOD	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVG.)	WET SUBS. (1000AF)	DRY SUBS. (1000AF)	REAS. MAX. (1000AF)	MIN		5 YR. AVG. 000AF)
EF CARSON RIVER nr Gardnerville, Nv WF CARSON RIVER at Woodfords, Ca CARSON RIVER near Carson City, Nv	APR-JUL	150 40 130	76 71 66	154 24	146 41	176 166	12		 198 57 198
CARSON RIVER near Ft. Churchill, Nv	APR-JUL	115	63			164	5:	3 	 182
RESERVOIR	STORAGE		(1000AF)	1 1	WATE	RSHED SNOWP	ACK ANAL	/SIS	
RESERVOIR	USEABLE CAPACITY	** USEA THIS YEAR	ABLE STORAGE * LAST YEAR AV		RSHED		URSES -		 S % OF
LAHONTAN RESERVOIR	295.1	172.6	177.9 229	W. C	ARSON RIVER ARSON RIVER ON Rv. at Car	son City	4	291 299 354	54 60 60

WET SUBS. and DRY SUBS. represent 130 and 70 percent subsequent precipitation events respectively. REAS. MAX. and REAS. MIN. forecasts are for 10% and 90% exceedance levels.

^{(2) -} Corrected for upstream diversions or changes in reservoir storage.

WALKER RIVER BASIN





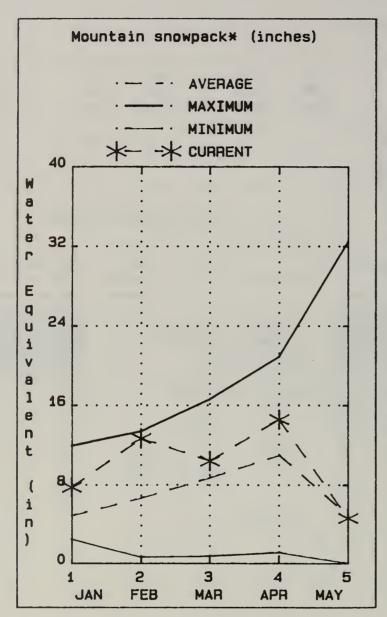
Snow water content in the Walker River Basin decreased during April to well below average. The basin currently has 41% of the May 1 average and 161% of the water content present last year. April precipitation for the Walker River Basin was 35% of average and 60% of last year. Precipitation since October 1, 1988 is 82% of average and 144% of last year. Reservoir storage on the last day of April was 40% of average. Total storage for Bridgeport and Topaz reservoirs was 29,671 acre feet. Streamflows in the Walker River Basin are expected to be well below average. The West Walker River near Coleville is expected to flow at 65% of average or 100,000 acre feet during the April-July forecast period, with a peak flow of about 1150 cfs.

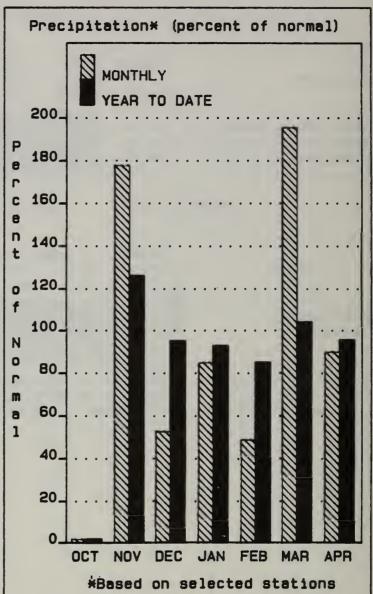
FORECAST POINT	FORECAST	MOST PROBABLE	MOST PROBABLE		WET SUBS.	DRY SUBS.	REAS.	REA MI	 LS . IN .	· 	25 YR. AVG.
	PERIOD	(1000AF)	(% AVG.)	(1	.000 AF)	(1000AF)	(1000 AF)	(1000	AF)		(1000AF)
EAST WALKER RIVER nr Bridgeport 2	APR-AUG	46	60				72	19).9		77
WEST WALKER RIVER near Coleville, Ca	APR-JUL	100	65		105	95	120		80		155
WALKER LAKE RISE (LOW 2/1/87)	LOW-HIG	-1.5									0.0
	USEABLE		BLE STORAG				 ои		THIS	YEAR	AS % OE
RESERVOIR	CAPACITY	THIS	LAST	1	WATE	RSHED	co	URSES			
	ı	YEAR	YEAR	AVG.			AV	G'D	LAST	YR.	AVERAGE
BRIDGEPORT RESERVOIR	42.5	12.8	15.6	30.5	E. W	ALKER Rv. nr Brid	igepo	3	161		41
TOPAZ RESERVOIR	59.4	16.9	18.0	43.8	W. W	ALKER Rv. nr Cole	vill	4	161		41
				1	WALK	ER LAKE RISE		4	161		41

WET SUBS. and DRY SUBS. represent 130 and 70 percent subsequent precipitation events respectively. REAS. MAX. and REAS. MIN. forecasts are for 10% and 90% exceedance levels.

^{(2) -} Corrected for upstream diversions or changes in reservoir storage.

NORTHERN GREAT BASIN





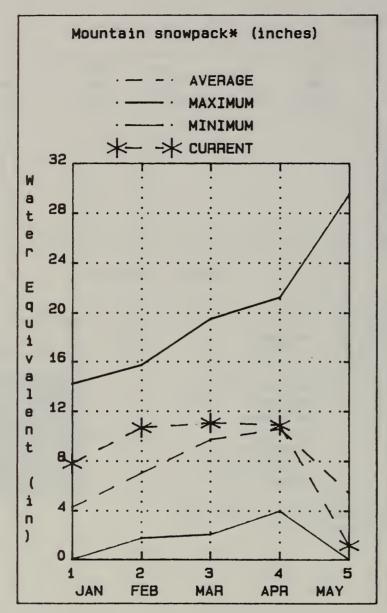
Snow water content in the Northern Great Basin, based on SNOTEL (SNOw TELemetry) readings, decreased to near average during April. The basin currently has 93% of the May 1 average and 222% of the water content present last year. April precipitation for the Northern Great Basin was 90% of average and 60% of last year. Precipitation since October 1, 1988 is 96% of average and 142% of last year. Streamflows in the Northern Great Basin are expected to be above normal. Bidwell Creek near Fort Bidwell is expected to flow at 113% of normal or 13,500 acre feet during the April-July forecast period. The Quinn River near McDermitt is forecast at 113% of average or 18,000 acre feet during the April-July forecast period.

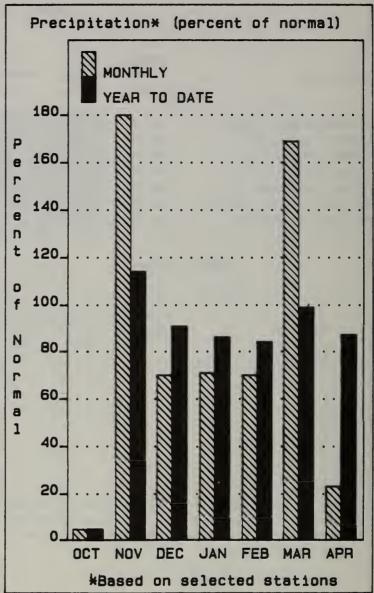
FORECAST POINT	PERIOD	PROBABLE (1000AF)	PROBABLE (% AVG.)	SUBS.	DRY SUBS. (1000AF)	MAX.	MIN.		25 YR. AVG. (1000AF)
BIDWELL CREEK nr Fort Bidwell	APR-JUL					17.3	9.7		12.0
DEEP CREEK nr Cedarville, Ca	APR-JUL	4.2	117			5.4	3.0		3.6
EAGLE CREEK nr Eagleville, Ca	APR-JUL	4.9	114			6.3	3.5		4.3
MILL CREEK nr Cedarville, Ca	APR-JUL	4.8	117			6.1	3.5		4.1
QUINN RIVER nr McDermitt, Nv	APR-JUL	18.0	113			25	11.4		16.0
E. FORK QUINN RIVER nr McDermitt	APR-JUL	12.0	115			16.3	7.7		10.4
MCDERMITT CREEK nr McDermitt	APR-JUL	16.0	111			22	10.1		14.4
RESERVOI	R STORAGE	(1000 AF)	 	WATE	RSHED SNOWPA	CK ANALYS	IS	
		** USEA	BLE STORAGE	•	WATEI	 NO.	 TH	 IS YEAR	
	USEABLE CAPACITY	** USEA THIS YEAR	BLE STORAGE LAST YEAR	WAT:	ERSHED	NO. COU	TH	IS YEAR	
	USEABLE CAPACITY	** USEA THIS YEAR	BLE STORAGE LAST YEAR	WAT		NO. COU AVG	TH TRSES	IS YEAR	AS % OF
	USEABLE CAPACITY	** USEA THIS YEAR	BLE STORAGE LAST YEAR	WAT:	ERSHED	NO. COU AVG	TH TRSES	IS YEAR	AVERAGE
	USEABLE CAPACITY	** USEA THIS YEAR	BLE STORAGE LAST YEAR	WAT	ERSHED 	NO. COU AVG	TH TRSES	IS YEAR	AVERAGE 0 0
	USEABLE CAPACITY	** USEA THIS YEAR	BLE STORAGE LAST YEAR	WAT:	ERSHED WELL L CREEK	NO. COU AVG	TH RSES	IS YEAR ST YR.	AVERAGE 0 0 0
	USEABLE CAPACITY	** USEA THIS YEAR	BLE STORAGE LAST YEAR	WAT	ERSHED WELL L CREEK P CREEK	NO. COU. AVG 0 0	TH	IS YEAR ST YR. 0	AVERAGE 0 0 0
	USEABLE CAPACITY	** USEA THIS YEAR	BLE STORAGE LAST YEAR	WATE	ERSHED WELL L CREEK P CREEK LE CREEK	NO. COU. AVG 0 0	TH TRSES	IS YEAR ST YR. 0 0 0	O O O O O

WET SUBS. and DRY SUBS. represent 130 and 70 percent subsequent precipitation events respectively. REAS. MAX. and REAS. MIN. forecasts are for 10% and 90% exceedance levels.

^{(2) -} Corrected for upstream diversions or changes in reservoir storage.

UPPER HUMBOLDT RIVER BASIN





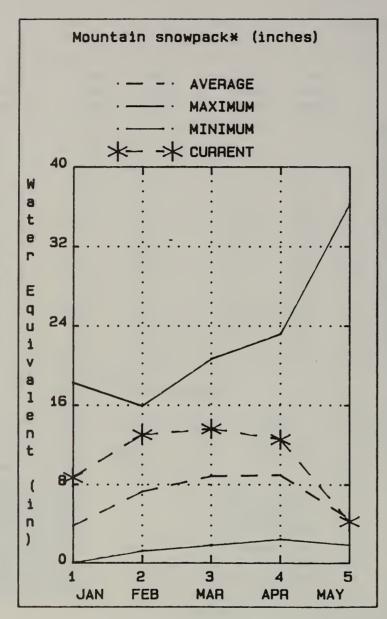
Snow water content in the Upper Humboldt River Basindropped significantly during April to well below normal. The basin currently has 22% of the May 1 average and 78% of the water content present last year. April precipitation for the Upper Humboldt River Basin was 23% of average and 39% of last year. Precipitation since October 1, 1988 is 87% of average and 122% of last year. Streamflows in the Upper Humboldt River Basin are expected to be below normal to well below normal. The Humboldt River at Palisades is expected to flow at 63% of average or 130,000 acre feet during the May-July forecast period. The flow of the Humboldt River at the Palisades gage during March-April was 162,580 acre feet.

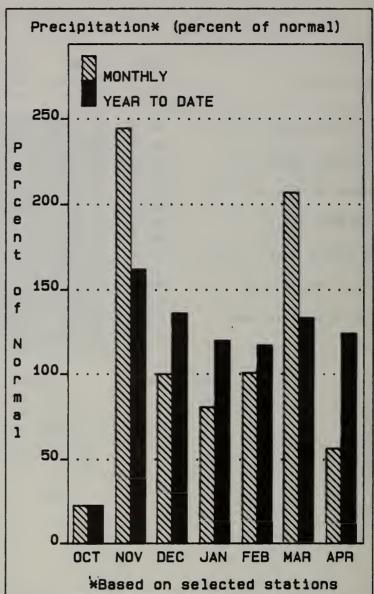
FORECAST POINT	FORECAST PERIOD	PROBABLE	MOST PROBABLE (% AVG.)	SUBS.	SUBS.	REAS. MAX. (1000AF)	MIN.		25 YR. AVG. (1000AF)
ARY'S RIVER nr Deeth	APR-JUL	34	82			47	15.7		42
	MAY-JUL	20	65			31	11.0		31
AMOILLE CREEK nr Lamoille	APR-JUL	26	88	27	24	37	15.4		30
	MAY-JUL	20	71	21	18.3	30	9.9		28
F HUMBOLDT RIVER at Devils Gate	APR-JUL	30	77	35	25	46	16.3		39
	MAY-JUL	15.0	59	18.3	10.4	25	6.9		25
UMBOLDT RIVER nr Elko	APR-JUL	137	89	139	132	191	66		154
	MAY-JUL	66	56	72	41	128	27		119
FORK HUMBOLDT RIVER at Dixie	APR-JUL	71	81	82	60	102	37		88
	MAY-JUL	59	75	68	50	93	31		79
UMBOLDT RIVER near Carlin	APR-JUL	200	84	215	188	305	88		238
	MAY-JUL	120	64	128	84	169	46		189
UMBOLDT RIVER at Palisades	APR-JUL	215	80	280	161	445	97		269
	MAY-JUL	130	63	182	78	220	45		208
RESERVOI	R STORAGE	(1000AF)	 	WATE	ershed snowpa	CK ANALYSI	:s	
	USEABLE	** USEA	BLE STORAGE	**		NO.	тні	S YEAR	R AS % O
RESERVOIR	CAPACITY	THIS YEAR		WA AVG.	TERSHED	COU		T YR.	AVERAG
					WOTER ORDER				0
				· ·	MOILLE CREEK	_	78		22
				•	FORK HUMBOLDT				0
				•	RY'S RIVER	·			
				ı N.	FORK HUMBOLDT	· ·	· ·		
				1 ****	MBOLDT Rv. at F	aliandos 3	78	1000	22

WET SUBS. and DRY SUBS. represent 130 and 70 percent subsequent precipitation events respectively. REAS. MAX. and REAS. MIN. forecasts are for 10% and 90% exceedance levels.

^{(2) -} Corrected for upstream diversions or changes in reservoir storage.

LOWER HUMBOLDT RIVER BASIN





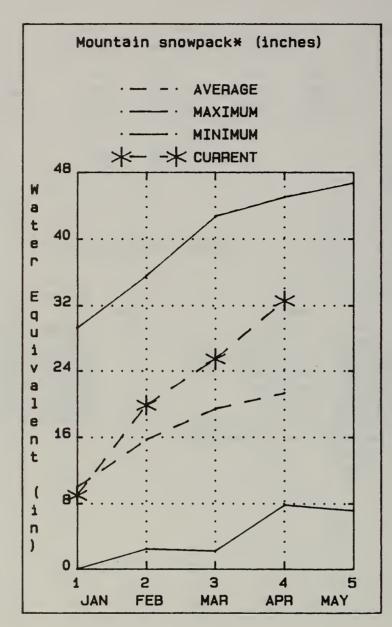
Snow water content in the Lower Humboldt River Basin decreased during April to near normal. The basin currently has 95% of the May 1 average and 262% of the water content present last year. April precipitation for the Lower Humboldt River Basin was 56% of average and 34% of last year. Precipitation since October 1, 1988 is 124% of average and 137% of last year. Reservoir storage on the last day of April was 44% of average. Total storage in Rye Patch Reservoir was 55,750 acre feet. Streamflows in the Lower Humboldt River are expected to be near normal to well below normal. The Humboldt River at Comus is expected to flow at 75% of average or 172,000 acre feet during the April-July forecast period. The Little Humboldt River near Paradise Valley is expected to flow at 105% of average or 13,100 acre feet during the April-July forecast period.

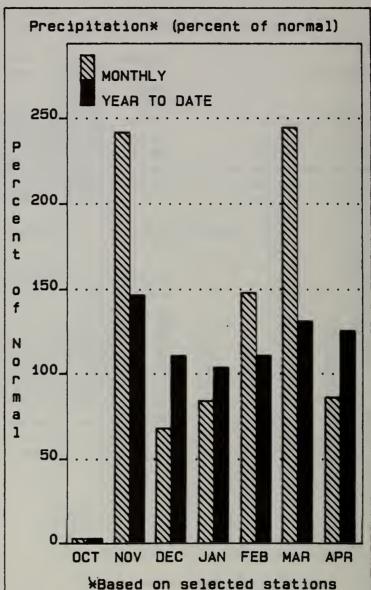
FORECAST POINT	FORECAST PERIOD		(% AVG.)	WET SUBS (1000A)	DRY SUBS. (1000AF)	REAS. MAX. (1000AF)	MIN.		25 YR. AVG. (1000AF)
REESE RIVER nr Ione Nv	APR-JUL	100	68			7.0	2.8	3	7.8
ROCK CREEK nr Battle Mtn.	APR-JUL	21	9.5			27	14.8	3	22
HUMBOLDT RIVER at Comus	APR-JUL	172	75	20	133	275	67	7	229
L. HUMBOLDT RIVER nr Paradise Valley	APR-JUL	13.1	105			18.2	8.0)	12.5
MARTIN CREEK nr Paradise Nv	APR-JUL	18.0	95	18.	17.8	26	10.2	2	19.0
RESERVOIR .	STORAGE		1000AF)	 	WA	TERSHED SNOWP	ACK ANALY	rsis	
RESERVOIR		(** USEA		 	wa				EAR AS % OF
RESERVOIR RESERVOIR	USEABLE CAPACITY	** USEA THIS YEAR	BLE STORAG LAST YEAR	AVG.	WA TERSHED	NO CO	OURSES -	THIS YI	EAR AS % OF
RESERVOIR	USEABLE CAPACITY	** USEA THIS YEAR	BLE STORAG LAST YEAR	W. AVG.		NO CO AV	OURSES -	THIS YI	
RESERVOIR	USEABLE CAPACITY 	** USEA THIS YEAR	BLE STORAG LAST YEAR	AVG. 	TERSHED	NO CO AV RIVER	DURSES	THIS Y	R. AVERAGE
RESERVOIR	USEABLE CAPACITY 	** USEA THIS YEAR	BLE STORAG LAST YEAR	AVG. 	TERSHED	NO CO AV RIVER	DURSES	THIS YI	R. AVERAGE

WET SUBS. and DRY SUBS. represent 130 and 70 percent subsequent precipitation events respectively. REAS. MAX. and REAS. MIN. forecasts are for 10% and 90% exceedance levels.

^{(2) -} Corrected for upstream diversions or changes in reservoir storage.

CLOVER VALLEY & FRANKLIN RIVER BASIN





Snow water content in the Clover Valley & Franklin River Basin, based on SNOTEL (SNOw TELemetry) readings, remain well above average for the third month in a row. April precipitation for the Clover Valley & Franklin River Basin was 86% of average and 140% of last year. Precipitation since October 1, 1988 is 125% of average and 157% of last year. Streamflows in the Clover Valley & Franklin River Basin are expected to be near normal. The Franklin River near Arthur is expected to flow at 99% of average or 6800 acre feet during the April-July forecast period.

CLOVER VALLEY & FRANKLIN RIVER BASIN

STREAMFLOW FORECASTS

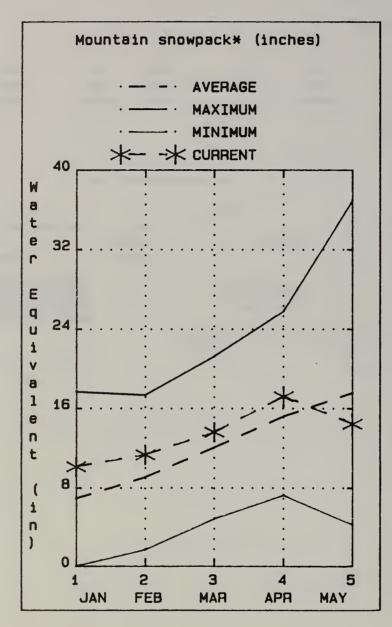
FORECAST POINT	FORECAST PERIOD	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVG.)	WET SUBS. (1000AF)	DRY SUBS. (1000AF)	MAX.	EAS. MIN. DOAF)	25 YR. AVG. (1000AF)
FRANKLIN RIVER nr Arthur	APR-JUL	6.8	99			8.9	4.2	 6.9
F	ESERVOIR STORAGE		(1000AF)	 	WATE	RSHED SNOWPACK A	NALYSIS	
RESERVOIR	USEABLE CAPACITY		ABLE STORAGE LAST YEAR	·	ERSHED	NO. COURSES AVG'D		 AS % OF
		1EAR		 FRA	NKLIN RIVER	0 0	0	 0

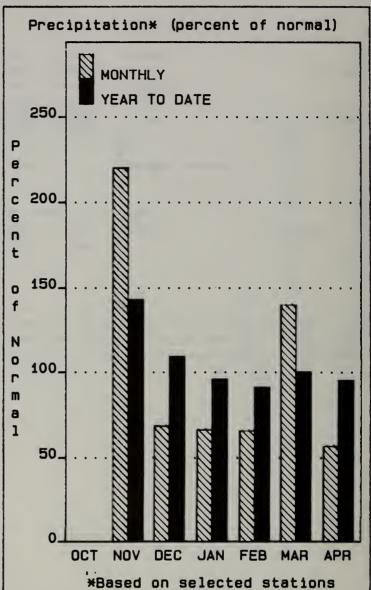
WET SUBS. and DRY SUBS. represent 130 and 70 percent subsequent precipitation events respectively.

REAS. MAX. and REAS. MIN. forecasts are for 10% and 90% exceedance levels.

^{(2) -} Corrected for upstream diversions or changes in reservoir storage.

SNAKE RIVER BASIN





Snow water content in the Snake River Basin decreased during April to below average. The basin currently has 82% of the May 1 average and 120% of the water content present last year. April precipitation for the Snake River Basin was 57% of average and 74% of last year. Precipitation since October 1, 1988 is 95% of average and 123% of last year. Streamflows in the Snake River Basin are expected to be below average. Salmon Falls Creek near San Jacinto is expected to flow at 81% of average or 50,000 acre feet during the May-July forecast period.

SNAKE RIVER BASIN

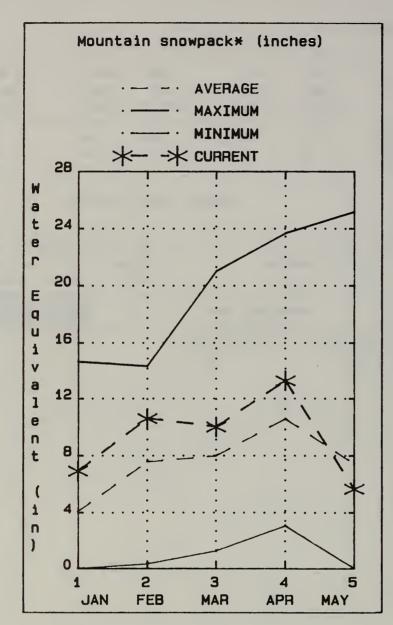
STREAMFLOW FORECASTS

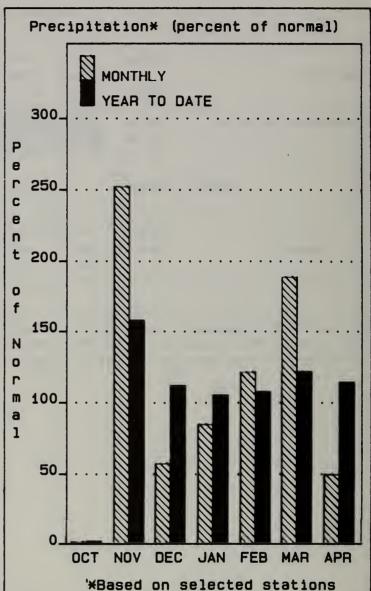
FORECAST POINT	FORECAST PERIOD	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVG.)	WE: SUB: (1000)	s. subs.		. MIN.		25 YR. AVG. (1000AF)
SALMON FALLS CK nr San Jacinto	MAR-JUL MAY-JUL	114 50	118	1:	109 109 109				97 62
RESERVOI	R STORAGE	(1000AF)	 		WATERSHED SNO	WPACK ANALY	sis	
RESERVOIR	USEABLE CAPACITY	** USEA	BLE STORAGE LAST	** i	√ATERSHE D	1	COURSES -	HIS YEAR	

WET SUBS. and DRY SUBS. represent 130 and 70 percent subsequent precipitation events respectively. REAS. MAX. and REAS. MIN. forecasts are for 10% and 90% exceedance levels.

^{(2) -} Corrected for upstream diversions or changes in reservoir storage.

OWYHEE RIVER BASIN





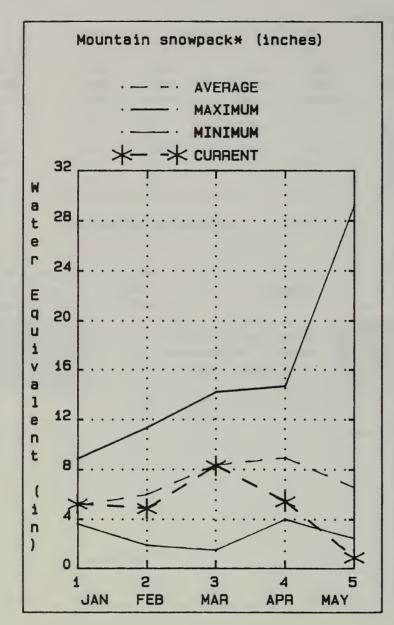
Snow water content in the Owyhee River Basin decreased during April to below normal. The basin currently has 76% of the May 1 average and 227% of the water content present last year. April precipitation for the Owyhee River Basin was 50% of average and 62% of last year. Precipitation since October 1, 1988 is 114% of average and 169% of last year. Reservoir storage on the last day of April was 155% of average. Total storage for Wildhorse Reservoir was 53,800 acre feet. Streamflows in the Owyhee River Basin are expected to be near normal. The Owyhee River near Owyhee is expected to flow at 110% of average or 95,000 acre feet during the April-July forecast period.

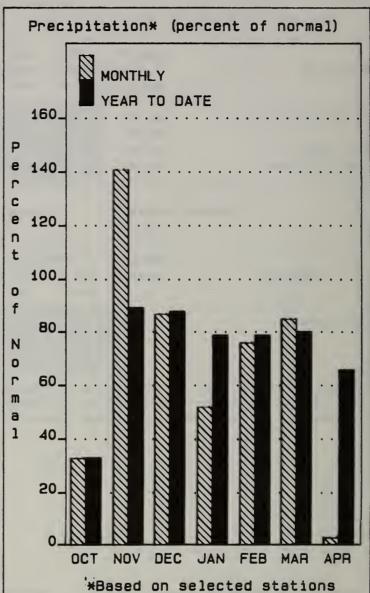
FORECAST POINT	FORECAST PERIOD	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVG.)	WET SUBS. (1000AF)	DRY SUBS. (1000AF)	REAS. MAX. (1000AF)	м	EN.		25 YR. AVG. (1000AF)
WYHEE nr Gold Ck (2)	MAR-JUL	40	121	41	39	50		30		33
	MAY-JUL	14.2	101	14.3	13.9	18.5	2	9.9		14.0
WYHEE nr Owyhee (2)	APR-JUL	95	110	104	86	122		68		86
F OWYHEE nr Whiterock	APR-JUL	91	110			117		65		83
R	eservoir storage	(1000AF)	1	WATE	ERSHED SNOW	PACK ANA	ALYSIS		
R	ESERVOIR STORAGE USEABLE		1000AF)BLE STORAGE	 	WATI		PACK ANA		YEAR	AS % C
RESERVOIR		** USEA		i i	WATE	n			YEAR	AS % 0
	USEABLE CAPACITY 	** USEA THIS YEAR	BLE STORAGE LAST YEAR	AVG.	·	NG CG	 o.	THIS		AS % C
RESERVOIR	USEABLE CAPACITY 	** USEA THIS YEAR	BLE STORAGE LAST YEAR	AVG.	·	NO CC A	O. DURSES VG'D	THIS		
	USEABLE CAPACITY 	** USEA THIS YEAR	BLE STORAGE LAST YEAR	AVG. 34.7 OWYE	rshed	No Co A	O. DURSES VG'D	THIS		AVERAG

WET SUBS. and DRY SUBS. represent 130 and 70 percent subsequent precipitation events respectively. REAS. MAX. and REAS. MIN. forecasts are for 10% and 90% exceedance levels.

^{(2) -} Corrected for upstream diversions or changes in reservoir storage.

EASTERN NEVADA BASIN





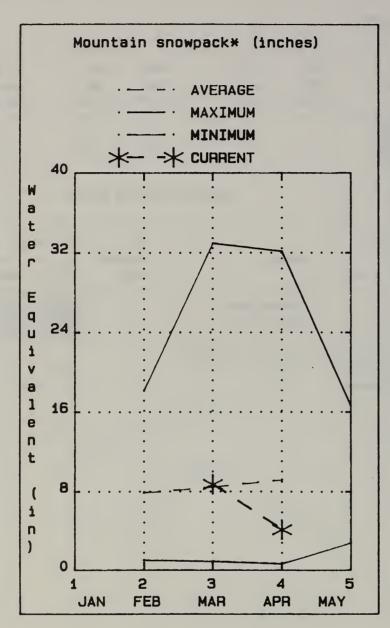
Snow water content in the Eastern Nevada Basin, based on SNOTEL (SNOw TELemetry) readings, are well below average. The basin currently has 14% of the May 1 average and 18% of the water content present last year. April precipitation for the Eastern Nevada Basin was 3% of average and 2% of last year. Precipitation since October 1, 1988 is 66% of average and 68% of last year. Streamflows in the Eastern Nevada Basin are expected to be well below average to near average. Steptoe Creek near Ely is expected to flow at 56% of average or 1800 acre feet during the April-July forecast period.

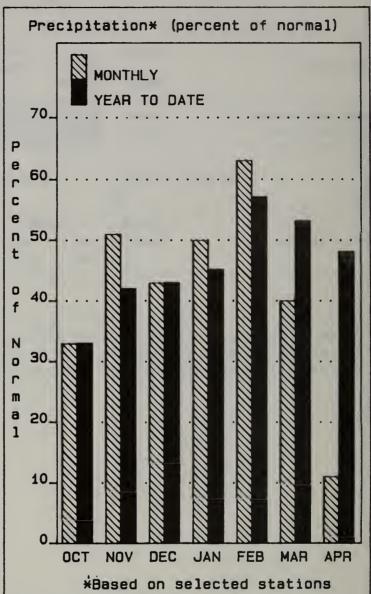
FORECAST POINT		FORECAST	MOST PROBABLE	MOST PROBABLE		WET SUBS.	DRY SUBS.	REAS.		as. In.		25 YR. AVG.
		PERIOD	(1000AF)	(% AVG.)	(10	000AF)	(1000AF)	(1000AF	(100	OAF)		(1000AF)
KINGSTON CREEK nr Austin,	Nv	APR-JUL	3.8	90				5.9		3.0		4.2
STEPTOE CREEK nr Ely		APR-JUL	1.8	56				3.0		0.9		3.2
	RESERVOIR	STORAGE		(1000 A F)	1 1 1		WATE	RSHED SNOW	PACK AN	ALYSIS		
		USEABLE	** USE	ABLE STORAGE	**		·	N	 o.	THIS	YEAR	AS % O
RESERVOIR		CAPACITY	THIS	LAST	- 1	WATER	SHED	C	OURSES			
		1	YEAR	YEAR	AVG.			A'	VG'D	LAST	YR.	AVERAGI
						KINGS	TON CREEK		0	0		0
					1	STEPI	OE VALLEY		0	0		0

WET SUBS. and DRY SUBS. represent 130 and 70 percent subsequent precipitation events respectively. REAS. MAX. and REAS. MIN. forecasts are for 10% and 90% exceedance levels.

^{(2) -} Corrected for upstream diversions or changes in reservoir storage.

LOWER COLORADO RIVER BASIN





Snow courses in the Virgin River Watershed reported no snow on May 1. April precipitation in the Lower Colorado River Basin was 11% of average and 4% of last year. Precipitation since October 1, 1988 is 48% of average and 35% of last year. Reservoir storage on the last day of April was 115% of average. Total storage for Lake Mohave and Lake Mead was 24,088,200 acre feet. Streamflows in the Lower Colorado River Basin are expected to be well below average. The Colorado River inflow to Lake Powell is expected to be 4,800,000 acre feet during the April-July forecast period.

FORECAST POINT	FORECAST PERIOD	MOST PROBABLE (1000AF)	MOST PROBABI (% AVG.		WET SUBS. (1000AF)	DRY SUBS. (1000AF)	REA MA (1000	x .	EAS. MIN. 00AF)	25 YR. AVG. (1000AF)
COLORADO RIVER inf to Lake Powell 2 VIRGIN near Hurricane	APR-JUL MAY-JUN	4800 10.0	55 23				65	00	3260	8086
RESERVOIR	STORAGE		(1000AF)		1 1 1	W	ATERSHED SN	OWPACK A	NALYSIS	
RESERVOIR	USEABLE CAPACITY	** USE. THIS YEAR	ABLE STOF LAST YEAR	AVG.		RSHED		NO. COURSES AVG'D		EAR AS % OI
ake mohave .ake mead	1810.0 26159.0	1554.2 22534.0	1774.2 24144.0	1675.0 19278.0			Littlefield Hurricane,	4	0	0

WET SUBS. and DRY SUBS. represent 130 and 70 percent subsequent precipitation events respectively.

REAS. MAX. and REAS. MIN. forecasts are for 10% and 90% exceedance levels.

^{(2) -} Corrected for upstream diversions or changes in reservoir storage.

SNOW DATA MEASUREMENTS

SNOW COURSE	ELEVATION	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 1961-85
LAKE TAHOE BASIN						
ECHO PEAK (CA) ECHO SUMMIT (CA) FALLEN LEAF (CA) FREEL BENCH (CA) HAGANS MEADOW (CA) HEAVENLY VALLEY (CA MARLETTE LAKE RUBICON #2 (CA) TRUCKEE, UPPER (CA) WARD CREEK #2 (CA) WARD CREEK #3 (CA)	8000 7500	5/01/89 4/28/89 5/01/89 5/01/89 5/01/89 5/01/89 5/01/89 5/01/89 5/01/89 5/01/89	43 0 0 0 0	20.0E 20.1 .0E .0E .0E 17.8E 11.8E 16.5E .0E 24.6E 24.3E	2.4 3.0 .0 .0 .0 .0 .0 1.7 .0 1.2 5.4	36.7 27.8 .0 5.0 11.8 27.1 20.3 31.2 2.2 37.4 35.3
TRUCKEE RIVER BASIN						
CASTLE CREEK (CA) DONNER SUMMIT (CA) FORDYCE LAKE (CA) FURNACE FLAT (CA) INDEPENDENCE CAMP OF INDEPENDENCE CREEK INDEPENDENCE LAKE OF MT. ROSE MT. ROSE MT. ROSE SKI AREA SQUAW VALLEY #2 (CA) SQUAW VALLEY G.C., CO WEBBER LAKE (CA)	6500 2A 8450 9000 9000 7500	5/02/89 4/28/89 4/28/89 4/28/89 5/01/89 5/01/89 5/01/89 5/01/89 5/01/89 5/01/89 4/28/89 4/28/89	93 53 50 77 0 48 91	46.1 25.0 25.0 39.7 .0E .0E 46.7E 26.5E 35.5E 29.3E 31.1S 21.5 41.8	13.3 1.8 2.4 11.8 .0 .0 17.4 10.8 13.9 9.1 9.5	50.9 34.1 38.6 47.9 15.7 6.3 45.3 34.2 43.3 50.9 55.6
CARSON RIVER BASIN BLUE LAKES (CA) CARSON PASS, UP (CA) EBBETTS PASS #2 (CA) POISON FLAT #2 (CA) SPRATT CREEK (CA) WET MEADOWS #2 (CA)	8700 7900 6080	4/27/89 4/27/89 5/01/89 5/01/89 5/01/89 5/01/89	53 61 0 0	22.8 26.0 22.9E .0E .0E	13.2 .0 .6 .0 8.8	35.2 34.1 38.5 12.2 .0 41.2

SNOW DATA MEASUREMENTS (CONT)

SNOW COURSE	ELEVATION	DATE	SNOW DEPTH		LAST YEAR	AVERAGE 1961-85
WALKER RIVER BASIN						
LEAVITT MEADOWS (CA) LOBDELL LAKE (CA) VIRGINIA LAKES RIDG	9200	5/01/89 5/01/89 5/01/89	0	.0E .0E 8.6E	1.7	
SNAKE RIVER BASIN						
BEAR CREEK GOAT CREEK HUMMINGBIRD SPRINGS POLE CREEK R.S. SEVENTYSIX CREEK	8330	5/01/89 4/29/89 4/29/89 4/29/89 5/01/89	51 50 0	18.9E 19.5 24.0E 20.0 .0E	11.8 16.6 21.6 18.8	20.9 27.7 23.4
OWYHEE RIVER BASIN						
BIG BEND JACK CREEK, UPPER JACKS PEAK LAUREL DRAW TAYLOR CANYON	6700 7250 8420 6700 6200		0	.0E 6.6E 18.5E .0E .0E	2.6 9.0 	1.3
UPPER HUMBOLDT RIVER BA	SIN					
CORRAL CANYON DORSEY BASIN GREEN MOUNTAIN LAMOILLE #3	8500 8100 8000 7700	5/01/89 5/01/89 5/01/89 5/01/89	 0 0	8.2E .0E .0E .0E	9.0 .0 1.5	
LOWER HUMBOLDT RIVER BA	SIN					
BIG CREEK SUMMIT BUCKSKIN, LOWER GRANITE PEAK	8700 6700 7800	•	 0 		10.0 .0 5.7	15.8 .0 18.9



MONTHLY & SEASONAL WEATHER OUTLOOK

U.S. DEPARTMENT OF COMMERCE National Oceanic and Atmospheric Administration National Weather Service

FOR MAY 1989



TEMPERATURE PROBABILITIES



PRECIPITATION PROBABILITIES

90-DAY OUTLOOK FOR MAY THROUGH JULY 1989



TEMPERATURE PROBABILITIES



PRECIPITATION PROBABILITIES

OBSERVED FOR MID-MARCH TO MID-APRIL 1989

BASED ON PRELIMINARY REPORTS





SNOW SURVEY DRI-ASC

1 May 1989

DATE APR.	SITE	ELEVATION FEET	LOCATION	SNOW IN.	WATER IN.	DENSITY	% OF NORMAL
30	JC	5800	Clear Creek	0	0		
30	SS	7260	Spooner Summit	0	0		
30	FT	5250	Cliff Ranch, Franktown	0	0		
30	LV	6540	Little Valley	0	0		
30	DC	5160	Davis Creek	0	0		
30	8	4590	Jct. 395 & NV 27	0	0		
30	6	5110	Lancer	0	0		
30	4	5670	Whites Creek	0	0		
30	R	5700	Evergreen Hills Rd.	0	0		
30	2	6000	Jones Creek	0	0		
30	0	6400	RNR Forestry Site	0	0		
30	N	7060	Reindeer Lodge	0	0		
30	М	7440	Galena Creek	0	0		
30	K	7620	Sky Tavern	0	0		
30	G	8280	Mt. Rose Resort	26	14.0	.54	49
30	D	8820	Tamarack Lake	53	25.8	.49	78
30	A	8540	Tahoe Meadows	61	31.2	.51	76
30	Ū	8000	Below Incline Lake	0	0		
30	V	7300	Apollo Way	0	0		
30	Z	6235	Third & Incline Creeks	0	0		
30	BS	7200	Brockway Summit	0	0		
30	NS	6320	North Star Fire Dept.	0	0		
30	TRK	59 00	Truckee - Tahoe Airport	0	0		
30	CK	6540	Cabin Creek	0	0		
30	sv	6240	Squaw Valley Fire Dept.	0	0		
30	TC	6200	Thunder Cliff	0	0		
30	TP	6240	Tahoe City	0	0		
30	BF	6200	Bennett Flat	0	0		
30	AC	69 60	Alder Creek	46	26.2	.57	
30	HM	5850	Hobart Mills	0	0		
30	SA	6340	Sagehen Creek	0	0		
30	LT	6410	Henness Pass Jct.	0	0		
30	FL	6200	Fuller Lake	0	0		
30	JL	6000	Joy Lake	0	0		

FOR MORE INFORMATION, CONTACT YOUR LOCAL SOIL CONSERVATION SERVICE OFFICE

BATTLE MOUNTAIN FIELD OFFICE

Rafael J. Guerrero 125 Carson Road, 153-9 Battle Mountain, NV 89820 (702) 635-2650

ELKO FIELD OFFICE

Leland R. Campsey 2002 Idaho Elko, NV 89801 (702) 738-8431

EUREKA FIELD OFFICE

Shelley S. Tucker Sentinel Building P.O. Box 323 Eureka, NV 89316 (702) 237-5251

LAS VEGAS FIELD OFFICE

James R. Ayres 1140 Almond Tree Lane Suite 310 Las Vegas, NV 89104 (702) 388-6426 or 388-6427

MINDEN FIELD OFFICE

Steve K. Walker 1694 County Road P.O. Box 517 Minden, NV 89423 (702) 782-3661 (Carson Valley) (702) 883-2623 (Carson City/Reno)

CALIENTE FIELD OFFICE

Richard A. Orr 360 Lincoln Street P.O. Box 8 Caliente, NV 89008 (702) 726-3101

ELY FIELD OFFICE

A. Wayne Imgard 1190 Avenue E Ely, NV 89301 (702) 289-4065

FALLON FIELD OFFICE

Peggy A. Hughes 111 Sheckler Road Fallon, NV 89406 (702) 423-5124

LOVELOCK FIELD OFFICE

Melvin D. Cheney City of Lovelock Building 400 14th Street P.O. Box 860 Lovelock, NV 89419 (702) 273-2134

RENO FIELD OFFICE

John R. Capurro 1281 Terminal Way Suite 204 Reno, NV 89502 (702) 784-5408

FOR MORE INFORMATION, CONTACT YOUR LOCAL SOIL CONSERVATION SERVICE OFFICE

TONOPAH FIELD OFFICE

Paul T. Ragland P.O. Box 1147 Tonopah, NV 89049 (702) 482-5506

YERINGTON FIELD OFFICE

William G. Duckworth 215 West Bridge Street Suite 11-A Yerington, NV 89447 (702) 463-2665

SOUTH LAKE TAHOE FIELD OFFICE

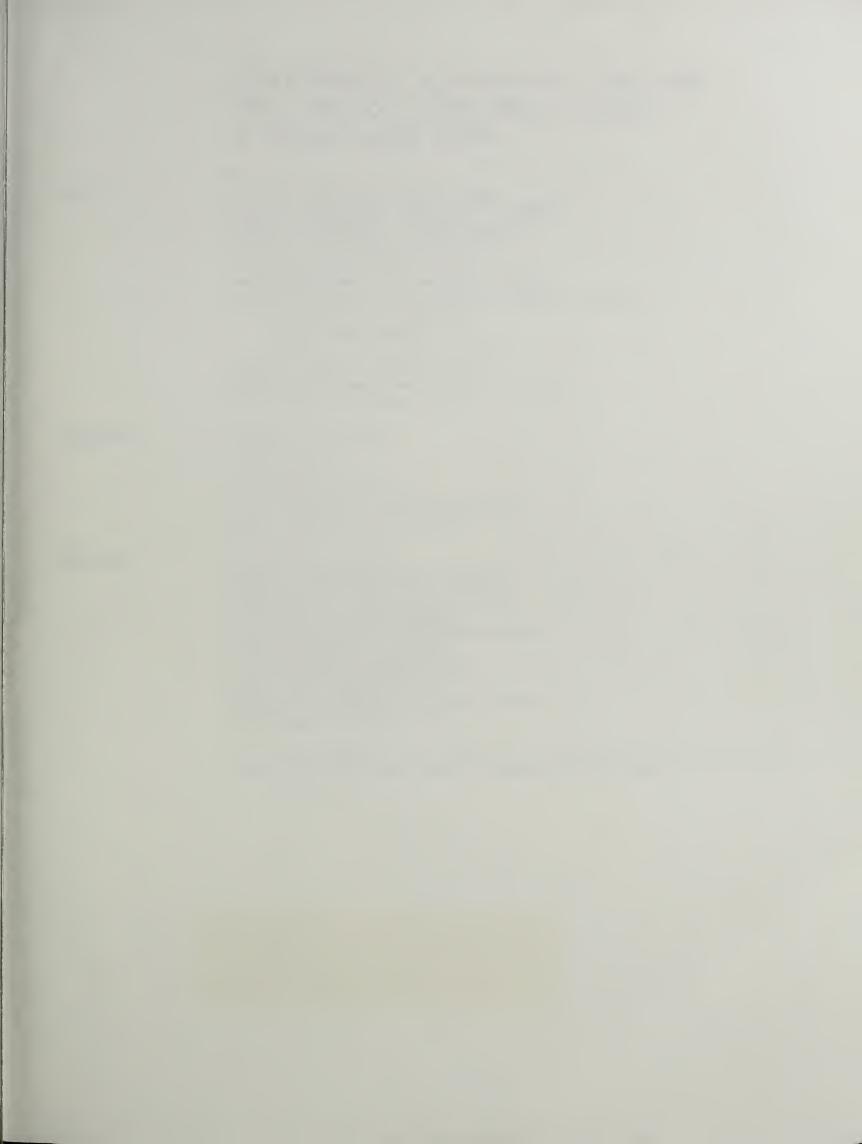
Richard C. Pyle 870 Highway 89 Suite 209 P.O. Box 10529 South Lake Tahoe, CA 95731 (916) 541-1496

WINNEMUCCA FIELD OFFICE

Walter T. Lamb 1200 Winnemucca Blvd., East Winnemucca, NV 89445 (702) 623-5025

CEDARVILLE FIELD OFFICE

Thomas S. Hill P.O. Box 777 USDA Building Wallace Street Cedarville, CA 96104 (916) 279-6110





The Following Organizations Cooperate With The Soil Conservation Service In Snow Survey Work

STATE

California Cooperative Snow Surveys

California Department of Parks and Recreation California Department of Water Resources Colorado River Commission of Nevada Idaho Cooperative Snow Surveys

Nevada Association of Conservation Districts

Nevada Department of Conservation & Natural Resources

Division of Water Resources Nevada State Forester

Division of Conservation Districts
Oregon Cooperative Snow Surveys

University of Nevada, Desert Research Institute

Utah Cooperative Snow Surveys

FEDERAL

Bureau of Reclamation

Forest Service Geological Survey

Soil Conservation Service

U.S. District Court - Federal Water Master

MOAA, National Weather Service

PRIVATE

Nevada Irrigation District

Owyhee Project North Board of Control Owyhee Project South Board of Control Pacific Gas and Electric Company

Pershing County Water Conservation District

Sierra Pacific Power Company Truckee - Carson Irrigation District Walker River Irrigation District

Washoe County Water Conservancy District

Las Vegas Valley Water District

Other organizations and individuals furnish valuable information for the snow survey reports. Their cooperation is gratefully acknowledged.

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SOIL CONSERVATION SERVICE
1201 TERMINAL WAY, SECOND FLOOR
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